## **EAST Search History**

| Ref<br># | Hits | Search Query  | DBs                  | Default<br>Operator | Plurals | Time Stamp       |
|----------|------|---|----------------------|---------------------|---------|------------------|
| L1       | 0    | ma.in. and yi.in. and (hydrogen near4 separation) and defect  | EPO; JPO;<br>DERWENT | OR                  | ON      | 2006/05/01 09:34 |
| L2       | 0    | ma and yi and (hydrogen near4 separation) and defect  | EPO; JPO;<br>DERWENT | OR                  | ON      | 2006/05/01 09:34 |
| L3       | 1    | ma and yi and hydrogen and defect   | EPO; JPO;<br>DERWENT | OR                  | ON      | 2006/05/01 09:34 |
| L4       | 476  | (95/55.ccls. or 95/56.ccls. or 96/4.ccls. or 96/11.ccls.) and (defect or pore or hole or crack or pinhole or fissure or breach) and (repair\$3 or fill\$3 or seal\$)  | US-PGPUB;<br>USPAT   | OR                  | ON      | 2006/05/01 10:13 |
| L5       | 132  | (95/55.ccls. or 95/56.ccls. or 96/4.ccls. or 96/11.ccls.) and ((defect or pore or hole or crack or pinhole or fissure or breach) near3 (repair\$3 or fill\$3 or seal\$))  | US-PGPUB;<br>USPAT   | OR                  | ON      | 2006/05/01 10:22 |
| L6       | 18   | (55/dig.5.ccls.) and ((defect or pore or hole or crack or pinhole or fissure or breach) near3 (repair\$3 or fill\$3 or seal\$)) and membrane  | US-PGPUB;<br>USPAT   | OR                  | ON      | 2006/05/01 10:33 |
| L7       | 63   | (427/250.ccls. or 427/245.ccls. or 427/405.ccls. or 428/548.ccls. or 428/670.ccls. or 423/248.ccls. or 423/648.1.ccls.) and ((defect or pore or hole or crack or pinhole or fissure or breach) near3 (repair\$3 or fill\$3 or seal\$)) and membrane | US-PGPUB;<br>USPAT   | OR                  | ON      | 2006/05/01 10:38 |
| L8       | 255  | (427/250.ccls. or 427/245.ccls. or 427/405.ccls. or 428/548.ccls. or 428/670.ccls. or 423/248.ccls. or 423/648.1.ccls.) and ((defect or pore or hole or crack or pinhole or fissure or breach) near3 (repair\$3 or fill\$3 or seal\$))              | US-PGPUB;<br>USPAT   | OR                  | ON      | 2006/05/01 10:34 |
| L9       | 553  | (427/250.ccls. or 427/245.ccls. or 427/405.ccls. or 428/548.ccls. or 428/670.ccls. or 423/248.ccls. or 423/648.1.ccls.) and membrane  | US-PGPUB;<br>USPAT   | OR                  | ON      | 2006/05/01 10:35 |
| L10      | 63   | 9 and ((defect or pore or hole or crack<br>or pinhole or fissure or breach) near3<br>(repair\$3 or fill\$3 or seal\$))  | US-PGPUB;<br>USPAT   | OR                  | ON      | 2006/05/01 10:35 |
| L11<br>· | 554  | (((defect or pore or hole or crack or<br>pinhole or fissure or breach) near3<br>(repair\$3 or fill\$3 or seal\$)) same<br>(selective\$ or nuclei)) and membrane   | US-PGPUB;<br>USPAT   | OR                  | ON      | 2006/05/01 10:39 |

## **EAST Search History**

| L12 | 64 | (((defect or pore or hole or crack or<br>pinhole or fissure or breach) near3<br>(repair\$3 or fill\$3 or seal\$)) same<br>(selective\$ or nuclei)) and membrane<br>and hydrogen and palladium   | US-PGPUB;<br>USPAT   | OR | ON  | 2006/05/01 10:43 |
|-----|----|---|----------------------|----|-----|------------------|
| L13 | 21 | (((defect or pore or hole or crack or<br>pinhole or fissure or breach) and<br>(repair\$3 or fill\$3 or seal\$))) and<br>membrane and (hydrogen or h2) and<br>(palladium or pd or alloy)   | EPO; JPO;<br>DERWENT | OR | ON  | 2006/05/01 10:44 |
| S1  | 37 | (("2,958,391") or ("3,413,777") or ("3,428,476") or ("4,496,373") or ("4,589,891") or ("5,049,167") or ("5,139,541") or ("5,205,841") or ("5,215,729") or ("5,217,506") or ("5,258,339") or ("5,259,870") or ("5,358,553") or ("5,393,325") or ("5,451,386") or ("5,449,848") or ("5,498,278") or ("5,614,001") or ("5,652,020") or ("5,782,960") or ("5,782,959") or ("6,152,987") or ("6,152,995") or ("6,152,987") or ("6,267,801") or ("6,372,363") or ("6,379,524") or ("6,419,728") or ("6,475,268") or ("6,547,858") or ("6,596,057") or ("4,056,373") or ("5,672,388") or ("20020083829") or ("20020164496")).PN. | US-PGPUB;<br>USPAT   | OR | OFF | 2006/04/27 14:29 |
| S2  | 5  | ma.in. and yi.in. and (hydrogen near4 separation) and defect  | US-PGPUB;<br>USPAT   | OR | ON  | 2006/05/01 10:12 |
| S3  | 1  | ("20040244589").PN.   | US-PGPUB;<br>USPAT   | OR | OFF | 2006/04/27 14:39 |
| S4  | 3  | (("20020083829") or ("5672388") or ("20040037962")).PN.   | US-PGPUB;<br>USPAT   | OR | OFF | 2006/04/27 17:09 |